EPOXY _____Name _____Date

also called...diglycidyl ether of bisphenol A, Bisphenol A, DGEBA epoxy resin, phenol novolate epoxy resin, Bisphenol F, or epichlorohydrin.

What is it?

Epoxy resins are man-made chemicals for producing glues and plastics. Usually they require two parts—a monomer unit that becomes cross-linked when a hardener is added. For most epoxies, epichlorohydrin is mixed with bisphenol A. Once it is hardened, epoxy is less likely to produce allergy. Sometimes, however, cured resin retains uncured molecules that produce a reaction.

Where might it be found?

Adhesives, glues, sealers Aircraft assembly, adhesives Anticorrosion protection (e.g.

oil drilling platform)
Appliance primers, finishes

Artist, potter, sculptor materials

Auto tool and dye casting

Automobile plastics, primers

Bikes

Boat varnish, protective coats

Bookbinding

Bottle caps

Cabinetmaking

Can and drum linings

Cement waterproofing

Circuit board assembly

Coil coatings

Concrete crack filler

Construction work

Dental bonding agents

Electric encapsulators, motors

Electrical condensers, devices

Electrical insulation, tape

Electron microscopy prep

Eyeglass frames

Fiberglass manufacture, repair

Fiberoptic assembly

Film cassettes

Fishing rod manufacture

Flooring material, glue, sealer

Golf clubs, golf balls

Handbags, purses

Hemodialysis equipment, cath

Hockey stick assembly

"Jelly" shoes

Laminates, plastic molding

Medical lab adhesive

Metal corrosion protection

Microscopy immersion oil

Nail polish

Nasal cannula

Pacemakers

Paints, printing inks

Plastic bracelets, necklaces, panties, shoes

Plasticizer, industrial

Protective coating, e.g. tent fabric, knee patch

PVC products

Shoemaking, bonded leather

Ski, ski pole, snowboard manufacture

Surface coatings, e.g. bridges

Synthetic asphalt

Tennis racket manufacture

Textile flame retardant

Vinyl gloves

Wall & floor protective coating

Waterproofing

Wind turbine rotor blade production

How to avoid it:

If possible, substitute a non-epoxy resin glue, high molecular weight epoxy adhesive, or one-bag epoxy product that mixes in the package. Do not touch uncured epoxy. To protect your hands from epoxy, wear *4H/Silvershield Gloves* (www.allerderm.com 800-365-6868 or www.northsafety.com 800-430-4110) or *Barrier Chemical Protective Gloves* (www.ansellpro.com 800-800-0444). Avoid breathing epoxy fumes.

Warn your dentist you are allergic to epoxy resin!